

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/005360

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07K14/775 A61K38/10 A61P31/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	OWENS B J ET AL: "Apolipoprotein A-I and its amphipathic helix peptide analogues inhibit human immunodeficiency virus-induced syncytium formation." THE JOURNAL OF CLINICAL INVESTIGATION. OCT 1990, vol. 86, no. 4, October 1990 (1990-10), pages 1142-1150, XP002343094 ISSN: 0021-9738 the whole document	
A	ITZHAKI R F ET AL: "ApoE-viral interactions." NATURE MEDICINE. DEC 1998, vol. 4, no. 12, December 1998 (1998-12), page 1344, XP002343095 ISSN: 1078-8956 the whole document	
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

5 September 2005

Date of mailing of the international search report

04/10/2005

Name and mailing address of the ISA

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Smalt, R.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>CORDER E H ET AL: "HIV-infected subjects with the E4 allele for APOE have excess dementia and peripheral neuropathy." NATURE MEDICINE. OCT 1998, vol. 4, no. 10, October 1998 (1998-10), pages 1182-1184, XP002343096 ISSN: 1078-8956 the whole document</p>	
A	<p>DYER C A ET AL: "STRUCTURAL FEATURES OF SYNTHETIC PEPTIDES OF APOLIPOPROTEIN E THAT BIND THE LDL RECEPTOR" JOURNAL OF LIPID RESEARCH, BETHESDA, MD, US, vol. 36, no. 1, January 1995 (1995-01), pages 80-88, XP002040101 ISSN: 0022-2275 the whole document</p>	
A	<p>WO 92/10512 A (THE SCRIPPS RESEARCH INSTITUTE) 25 June 1992 (1992-06-25) the whole document</p>	
A	<p>WO 93/00443 A (BIO-TECHNOLOGY GENERAL CORP) 7 January 1993 (1993-01-07) the whole document</p>	
A	<p>WO 99/16460 A (DUKE UNIVERSITY; MATTHEW, WILLIAM, D; STRITTMATTER, WARREN, J; GUTMAN,) 8 April 1999 (1999-04-08) the whole document</p>	
P,A	<p>ITZHAKI R F ET AL: "Alzheimer's disease, the neuroimmune axis, and viral infection" JOURNAL OF NEUROIMMUNOLOGY, ELSEVIER SCIENCE PUBLISHERS BV, XX, vol. 156, no. 1-2, November 2004 (2004-11), pages 1-2, XP004591395 ISSN: 0165-5728 the whole document</p>	

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 19 and 22 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☒ Claims Nos.: 5, 18
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Although claims 19 and 22 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Continuation of Box II.2

Claims Nos.: 5,18

Present claim 18 relates to a compound defined by reference to a desirable characteristic or property, namely its ability to increase the biological activity of a polypeptide of claims 1-15.

The application provides no support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for any such compounds. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search of these claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the compound by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search of the claimed scope impossible. The present search report hence only relates to claims 1-17 and 19-22.

Present claim 5 relates to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the subject-matter defined in a more restrictive manner in the claims 1-4 and 6-15 to extent that they are not dependent on claim 5.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/005360

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9210512	A	25-06-1992	US 5473039 A	05-12-1995
			AU 9156291 A	08-07-1992
			IE 914299 A1	17-06-1992
			PT 99754 A	30-11-1992
			WO 9210512 A1	25-06-1992
WO 9300443	A	07-01-1993	NZ 238813 A	25-03-1994
			US 5525472 A	11-06-1996
			WO 9300443 A1	07-01-1993
			AU 658578 B2	27-04-1995
			AU 8418691 A	25-01-1993
			EP 0600875 A1	15-06-1994
			FI 935850 A	23-12-1993
			JP 7503120 T	06-04-1995
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			AU 9676598 A	23-04-1999
			CA 2304720 A1	08-04-1999
			EP 1019081 A2	19-07-2000
			JP 2001518449 T	16-10-2001
			WO 9916460 A2	08-04-1999